EAPS WEEKLY NEWSLETTER
12 November 2018

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BE SURE TO CHECK OUT ALL OF THE EAPS COMMUNICATIONS MEDIA!

Facebook
Twitter
Department Magazine
Website News

DEPARTMENT NEWS

EAPS COLLOQUIA

Eric Bruning
Texas Tech University
Thursday, November 15, 2018
3:30 p.m.
HAMP 1252

EAPS DEFENSES

PhD

Kevin Graves
November 19, 2018
8:30 AM
HAMP 3214

EAPS MEETINGS & EVENTS

EAPS FACULTY MEETINGS

November 20
3:00 PM
HAMP 3201

EAPS PRIMARY COMMITTEE MEETINGS

November 13

CoS STAFF MEETING

December 17
3:00-4:30 PM
WTHR 200

http://www.eaps.purdue.edu/


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**PURDUE EAPS WELL REPRESENTED AT SEVERE STORMS CONFERENCE**

A contingent of three faculty and six students from Purdue EAPS attended the American Meteorological Society (AMS) 29th Conference on Severe Local Storms in Stowe, Vermont, 22-26 October 2018, delivering a total of three oral presentations and 10 poster presentations. The attendees were EAPS faculty Prof. Dan Dawson, Prof. Dan Chavas, and Prof. Robin Tanamachi, graduate students Allison LaFleur, Milind Sharma, Shawn Simmons, Zhanxiang (Henry) Hua, and Funing Li, and undergraduate student Derrek Dalman. (See attached photo.)

The AMS Severe Local Storms conference occurs biennially. About 300 people attended this year’s conference, which, according to its web site, “covers all topics related to severe local storms and associated hazards of tornadoes, large hail, damaging winds, lightning, and flash floods.”

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**GRADUATE STUDENT INTERNATIONAL TRAVEL AWARDS**

Application Submission Deadline: 4:00 PM November 17, 2018. For travel between January 1, 2019 and June 30, 2019.

[See attached flyer for complete details]

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**FREE O’REILLY & SPRINGER PUBLISHER BOOKS FOR PURDUE STUDENTS**

You can access O’Reilly and Springer books on wide variety of topics for free. Do so by visiting their respective publisher portals (PU login required):

O’Reilly: https://proquestcombo-safaribooksonline-com.ezproxy.lib.purdue.edu/

Springer (many books available as downloadable PDFs): https://link-springer-com.ezproxy.lib.purdue.edu/

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**ILS 695 DATA SHARING AND PUBLICATION**

- Wrapping up your PhD dissertation?
- Ready to share your data with your research group?
- Excited to publish your data sets along with your thesis?

A new course available to our Graduate Students that will walk students through the
process of preparing a data set for sharing with both internal and external audiences, in conjunction with their thesis deposit.

- Work closely with your supervisor to determine an authoritative data set
- Create data documentation
- Apply metadata
- Choose a data sharing platform as appropriate for your project

3 Credit
Spring 2019
Monday
8:30-9:20 (Lecture)
9:30-11:20 (Lab)
WALC 3049 & 3045

Questions? Contact Megan Sapp Nelson: msn@purdue.edu or Nichole Kong: kongn@purdue.edu

2019 SUMMER ASSOCIATE PROGRAM

Institute for Defense Analyses (IDA) in Alexandria, VA has a great student internship program for undergraduate and graduate students. IDA is currently looking for applicants for the 2019 Summer Program with potential opportunities in meteorology/atmospheric science.

Applications are due by January 5, 2019.

Click the link below to see the details of the position:
https://chk.tbe.taleo.net/dispatcher/servlet/DispatcherServlet?org=INSTITUTEDA&act=redirectCws&cws=39&redirectUrl=%2Fats%2Fcareers%2Frequisition.jsp%3FrId%3D1165%26org%3DINSTITUTEDA%26cws%3D39

AGU RECEPTIONS

The AGU Reception is at Matchbox Chinatown in Washington D.C. on Thursday, December 13, from 7-9:30 p.m.

http://www.eaps.purdue.edu/
Operation Groundswell is a non-profit organization that facilitates deeply immersive, educational, and volunteer experiences around the world. We dig into social justice issues while working in solidarity with local activists, non-profits, and communities. We want you to join us in our mission to create a more equitable, just, and sustainable world through travel.

**Apply by November 23rd!** Programs are filling up quickly, so apply as soon as possible. **Financial assistance is available for all students on five- and six-week programs.** You may also be able to use our programs for academic credit. Talk to us about your options!

Start your journey at: [WWW.OPERATIONGROUNDSWELL.COM](http://www.operationgroundswell.com)

Can’t travel in the summer? We travel all year long!

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### MS SCHOLARSHIPS AND FELLOWSHIPS

AMS scholarships and fellowships range from $1,000 to $25,000 and are open for applications — whether you will be a college freshman or a graduate student, AMS supports your education and pursuit of a career in the atmospheric and related oceanic or hydrologic sciences.

- 21 Senior Scholarship awards ranging from $2000 to $10,000 are available in 2019 for outstanding undergraduate students entering their final year of study. Applications are due on **8 February 2019**.

- AMS Graduate Fellowships include a $25,000 stipend and partial travel support to attend the AMS Annual Meeting. Applications are due on **11 January 2019**.

- The AMS Freshman Undergraduate Scholarship program is open to all high school students and designed to encourage study in the atmospheric and related sciences. Applications are due on **8 February 2019**.

- AMS Minority Scholarships award funding to minority students who have been traditionally underrepresented in the sciences, especially Hispanic, Native American, and Black/African American students. Applications are due on **8 February 2019**.

To learn more and apply click [here](http://www.operationgroundswell.com).

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### INTEGRATIVE DATA SCIENCE INITIATIVE (IDSI) DISTINGUISHED LECTURE SERIES

We are proud to announce the initial speaker for the IDSI Distinguished Lecture series:

**Dr. Vipin Kumar - Big Data in Climate and Earth Sciences: Challenges and Opportunities for Data Science**

**MONDAY, DECEMBER 3, 2018**

3:00-4:00 P.M.

LWSN 1142

Dr. Kumar is the Regents Professor and William Norris Chair in Large Scale Computing, Department of Computer Science and Engineering, University of Minnesota. Dr. Kumar is the Lead PI of a 5-year, $10 Million project, "Understanding Climate Change - A Data Driven Approach", funded by the NSF's Expeditions in Computing program that is aimed at pushing the boundaries of computer science research.

[See attached flyer for complete details]

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### SAP PORTAL PAUSE DATES ANNOUNCED IN PREPARATION FOR SUCCESSFACTORS TRANSFORMATION

Data preparations are underway for the upgrade to SuccessFactors, set to deploy Jan. 1. Nonexempt (i.e., hourly) staff will access SuccessFactors starting with the Dec. 24-Jan. 6 pay period. Exempt staff will access SuccessFactors starting Jan. 2. All employees will use SuccessFactors to view pay statements, adjust tax information, edit bank details, request time off, etc.

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[http://www.eaps.purdue.edu/](http://www.eaps.purdue.edu/)
Pause activities and dates are being implemented to reduce data conversion risk. Managers are encouraged to review the pause dates and adjust their staff hiring process timeline.

All employees should be aware of the Purdue SAP Portal pause on Nov. 28. Nov. 27 is the last day employees can access Purdue SAP Portal via OneCampus to view their salary statement, request leave online, or update personal information such as bank details, tax withholdings, etc. Employees are encouraged to request their December-dated time off or leaves by the needed time frame.

Here are the dates for the processes/systems that will be affected by the pause:

**Nov. 26: Staff recruitment through Taleo.** The last day to post a staff position in Taleo is Nov. 26. Taleo pauses Dec. 14. Hiring manager may continue to use the candidate pool within Taleo or post the position again through SuccessFactors in January to create a new candidate pool.

**Nov. 27: Employee Self-Service (Purdue SAP Portal).** Last day to access the SAP Portal, complete personal information updates and request online leaves.

**Nov. 30: Leave requests through Form 33Absence.** Last day to submit/approve Form 33Absence.

**Nov. 30: FMLA leave.** Last day to submit December-dated FMLA leave.

**Dec. 6: Personnel Action (PA) forms due to Payroll for December-dated actions for Dec. 1-30 monthly pay period.** As stated on the [monthly payroll calendar](#) on the Payroll website.

**Dec. 13: PA forms due to Payroll for December-dated actions for Dec. 10-23 biweekly pay period.** As stated on the [monthly payroll calendar](#) on the Payroll website.

**Dec. 14: Staff recruitment through Taleo.** Taleo pauses (hiring managers can continue to use existing candidate pools).

**Dec. 19: Benefit changes.** New hires and individuals with qualifying life events can continue to make changes to benefit elections in Benefitfocus, the online benefit enrollment system, through 5 p.m. Dec. 19.

### NATIVE AMERICAN EDUCATIONAL AND CULTURAL CENTER TO CELEBRATE HERITAGE MONTH

Purdue University’s [Native American Educational and Cultural Center](http://www.eaps.purdue.edu/) will host several events to celebrate Native American Heritage Month in November.

“Native American Heritage Month is a celebration to recognize and acknowledge the traditions and contributions of indigenous people," said Felica Ahasteen-Bryant, director of the Native American Educational and Cultural Center. “We are excited to offer programs that showcase our diverse tribal nations and to address both historical and current issues that impact Native peoples. I encourage the Purdue campus community to join us and gain deeper insight and appreciation of Native American cultures.”

Another highlight of the monthlong observance will be Purdue’s Literary Reading Series, featuring poet [Natalie Diaz at 7:30 p.m. Nov. 29](#) at Krannert Building’s Krannert Auditorium (Room 140).

Diaz was born and raised in the Fort Mojave Indian Village in Needles, California, on the banks of the Colorado River. She is Mojave and an enrolled member of the Gila River Indian Tribe. Her first poetry collection, “When My Brother Was an Aztec,” was published by Copper Canyon Press. She has received numerous awards, including being named a MacArthur Fellow, a Lannan Literary Fellow and a Native Arts Council Foundation Artist Fellow. She teaches at Arizona State University’s Creative Writing Master of Fine Arts program. Her talk is sponsored by the Creative Writing Program and the College of Liberal Arts.

Other scheduled events, which are open to the public, include:

* **Nov. 13: 6-7:30 p.m.**, Third Street Suites Conference Room. Film screening of “Native America: Episode 4 – New World Rising.” This event is co-sponsored by University Residences.
* Nov. 15: 3-5 p.m., Native American Educational and Cultural Center. NAECC Craft Circle, featuring gourd art. Local Native artist Linda Andrews will lead. Bring creative energy for this stress reduction event. Registration required.

* Nov. 27: 3-4:30 p.m., Native American Educational and Cultural Center. NAECC Indigenous Alumni Speakers Series presents RaeLynn Butler. This speaker series features distinguished Native American, Alaska Native and Native Hawaiian Purdue alumni who are making significant contributions in Native American communities and accomplishments in their profession. Butler is from the Muscogee Creek Nation in Tulsa, Oklahoma. She received her bachelor’s degree from Haskell Indian Nations University and her master’s degree in botany from Purdue’s Department of Botany and Plant Pathology in the College of Agriculture. She currently serves as the manager of the historic and cultural preservation department with the Muscogee Creek Nation.

* Nov. 28: 8 a.m.-5 p.m., Hendricks County Fairgrounds in Danville, Indiana. MESA 15th Annual Multicultural Gathering, “Mother Earth & Father Sky: Environmental Justice, Food Security and Sexual Violence Prevention.” This is a one-day training focused on developing strategies for sexual violence prevention in underserved and underrepresented communities. MESA (Multicultural Education to End Sexual Assault) sponsors this event, and the NAECC serves as a co-sponsor.

* Dec. 1: noon-4 p.m., Native American Educational and Cultural Center. Third annual Native American Winter Art Market. Native American students and local artists showcase their jewelry and artwork. The Purdue and Lafayette community are invited. This event is co-sponsored by Native American Student Association and Purdue AISES (American Indian Science and Engineering Society).

In addition to those programs, the center will launch “Natives Helping Natives,” which will include service events for the community. One will be a food drive for a food pantry managed by the American Indian Center of Indiana in Indianapolis. Food donations may be dropped off at the center through Nov. 14. In addition, a collection for books, gloves, hats and scarves will be taken at the center. Those items will be shipped to a school and an assisted living facility in New Mexico that serves primarily Native Americans.

Writer: Matthew Oates, 765-496-2571, oatesw@purdue.edu

Source: Felica Ahasteen-Bryant, 765-494-4540, felica@purdue.edu

FACULTY AFFAIRS INITIATIVES UP-TO-DATE WITH DEADLINES FOR 2018-2019

The website for faculty affairs initiatives in up-to-date with the deadlines for FY 2018-2019 and descriptions of the programs.

https://www.purdue.edu/provost/faculty/facultyInitiatives/facultyInitiatives.html

Should you have any questions, please contact Jessica Huber (jhuber@purdue.edu).

CELEBRATIONS

Kenneth Ridgway November 12
IMPORTANT NOTICE ABOUT THIS NEWSLETTER

This newsletter is used as the primary information source for current and upcoming events, announcements, awards, grant opportunities, and other happenings in our department and around campus. Active links to additional information will be provided as needed. Individual email announcements will no longer be sent unless the content is time-sensitive. We will continue to include our publications, presentations and other recent news items as well.

Those using paper copies of the newsletter should go to our newsletter archive on the EAPS website at http://www.eaps.purdue.edu/news/newsletters.html and Click on News to access active links as needed. Material for inclusion in the newsletter should be submitted to Katherine Huseman (khuseman@purdue.edu) by 5:00pm on Thursday of each week for inclusion in the Monday issue.

If it is in the newsletter, we assume you know about it and no other reminders are needed. For answers to common technology questions and the latest updates from the EAPS Technology Support staff, please visit: http://www.eaps.purdue.edu/resources/information_technology/index.htm.

Also, as an additional resource for information about departmental events, seminars, etc., see our departmental calendar at http://www.EAPS.purdue.edu/events-calendar.html
Meteorological Imagery from the GOES-16
Geostationary Lightning Mapper

Eric Bruning
Texas Tech University

The Geostationary Lightning Mapper (GLM) on GOES-16 provides the first-ever continuous mapping of total lightning on a hemispheric scale. This talk introduces the instrument and the suite of derived imagery being produced for use in the National Weather Service. Because there is typically 5-10x more lightning in clouds than ever strike ground, this total lightning measurement represents a significant advance in being able to monitor mixed-phase updraft modulation on <1 min timescales, and the spatial extent of flashes mapped by GLM provides an opportunity to link lightning behavior and storm structure, microphysics, and dynamics through conceptual models informed by multi-sensor views of storm processes. Each of the derived GLM imagery products are tailored to a different aspect of the coupled electrical state and storm dynamics. Additional data from the West Texas and other Lightning Mapping Arrays will be used to illustrate the 3D behavior of lightning, and how it fills clouds, illustrating the rapid advances in the understanding of storm electrical structure that have been made in the past two decades.
2019 College of Science Graduate Student International Travel Awards

Application Submission Deadline: 4:00 PM November 17, 2018

For travel between January 1, 2019 and June 30, 2019

~ 2 or 3 awards ranging up to $800 for international travel will be awarded~

Prerequisites:
• must be a full-time PhD student within the Department in the College of Science
• must be making an oral or poster presentation at an international conference

Priority will be given to:
• travel to make an oral presentation at a conference
• attendance at an interdisciplinary conference
• students who have passed their prelims

To apply, please send electronically as one file:
• CV (2 page limit)
• brief summary of research (1 page limit)
• brief statement of purpose for attending conference specifying whether your presentation is oral or poster
• provide web link to conference
• letter of support from research advisor

Send applications to Robin Sipes at rsipes@purdue.edu
BIG DATA IN CLIMATE AND EARTH SCIENCES: CHALLENGES AND OPPORTUNITIES FOR DATA SCIENCE

December 3, 2018, 3-4 p.m.
LWSN 1142

Vipin Kumar, Regents Professor and William Norris Chair in Large Scale Computing, Department of Computer Science and Engineering, University of Minnesota

Abstract:
The climate and earth sciences have recently undergone a rapid transformation from a data-poor to a data-rich environment. In particular, massive amount of data about Earth and its environment is now continuously being generated by a large number of Earth observing satellites as well as physics-based earth system models running on large-scale computational platforms. These massive and information-rich datasets offer huge potential for understanding how the Earth’s climate and ecosystem have been changing and how they are being impacted by humans actions. This talk will discuss various challenges involved in analyzing these massive data sets as well as opportunities they present for both advancing machine learning as well as the science of climate change in the context of monitoring the state of the tropical forests and surface water on a global scale.